Amendments to the Claims:

1	1.	(currently amended) A method for plotting a network topology using a markup
2		language, comprising the steps of:
3		retrieving first topology information from a data source in response to a request for a
4		first graphic display, wherein the first topology information represents a first
5		portion of a network topology that comprises graphical images that represent
6		nodes and connections between nodes;
7		converting the first topology information into a markup language document wherein
8		the markup language document is associated with a document type definition
9		that defines how to process information in the markup language document to
10		plot a graph based on the information;
11		plotting a graph of the first portion of the topology, based on the first topology
12		information in the markup language document;
13		causing display of the graph of the first portion of the topology on a display device;
14		after causing display of the graph of the first portion of the topology, and in response
15		to an interaction with a graphical image from the graph of the first portion of
16		the topology, automatically retrieving second topology information from the
17		data source, wherein the second topology information represents a second
18		portion of the network topology;
19		converting the second topology information into a markup language document
20		associated with the document type definition and plotting a graph of the
21		second portion of the topology based on the second topology information in
22		the markup language document; and
23		causing display of a graph of (a) at least a portion of the first portion based on the first
24		topology information and (b) the second portion of the topology based on the
25		second topology information, without retrieving again the first topology

26		information from the data source and plotting again the graph of the first
27		portion of the topology.
1	2-3.	(canceled)
1	4.	(previously presented) The method of claim 1 wherein the first topology information
2		as the markup language document includes
3		image information for specifying a graphical image representing a focus entity for
4		plotting in the graph of the first portion of the topology,
5		label information for specifying a label associated with the graphical image for
6		plotting in the graph of the first portion of the topology,
7		connection information for specifying one or more connections between the graphical
8		image and one or more secondary graphical images; and
9		wherein the step of plotting the graph of the first portion of the topology is performed
10		based on the image information, the label information, and the connection
11		information.
1	5.	(previously presented) The method of claim 4 wherein the step of plotting the graph
2		of the first portion of the topology is performed according to a display arrangement in
3		which the graphical image is substantially centered on the display device with the one
4		or more secondary graphical images connected to the graphical image in a generally
5		circular pattern.
1	6.	(previously presented) The method of claim 4 wherein the first topology information
2		as the markup language document further includes one or more of:
3		tool tip information for specifying information to display on the display device upon a
4		first interaction with the graphical image,
5		click action information for specifying an action to perform upon a second interaction
6		with the graphical image,

/		menu information for specifying a menu to display on the display device upon a third
8		interaction with the graphical image; and
9		wherein the step of receiving the first topology information is according to the
10		markup language document.
1	7.	(previously presented) The method of claim 4 wherein the first topology information
2		as the markup language document further includes
3		menu information for specifying a menu to display on the display device upon a first
4		interaction with the one or more connections; and
5		wherein the step of receiving the first topology information is according to the
6		markup language document.
1	8.	(previously presented) The method of claim 1 wherein the step of plotting the graph
2		of the first portion of the topology is performed according to one specified display
3		arrangement from a plurality of available display arrangements.
1	9.	(previously presented) A method for displaying portions of a network topology,
2		comprising the steps of:
3		converting network topology information into a first markup language document,
4		wherein the markup language document is associated with a document type
5		definition that defines how to process information in the markup language
6		document to plot a graph, wherein the markup language document includes
7		graph information specifying display attributes for plotting a first portion of
8		the network topology;
9		network node information, the node information including
10		image information for specifying a graphical image representing a first
11		node for display on a display device,

12		node label information for specifying a node label associated with the
13		graphical image for display on the display device,
14		network node connection information specifying a connection between
15		graphical images and representing a network link between the first
16		node and a second node;
17		plotting the first portion of the network topology based on the first markup language
18		document and associated document type definition;
19		displaying on the display device, as part of the first portion of the network topology,
20		the graphical image and the node label for the first node, according to the
21		node information and the graph information;
22		displaying on the display device, as part of the first portion of the network topology,
23		the connection between the graphical image representing the first node and at
24		least a second graphical image representing the second node, according to the
25		node connection information and the graph information;
26		after displaying the graphical image, the node label and the connection, and in
27		response to an interaction with a graph of the first portion of the network
28		topology, retrieving a second markup language document associated with the
29		document type definition, wherein the second markup language document
30		corresponds to a second portion of the network topology; and
31		causing display of a graph of (a) at least a portion of the first portion and (b) the
32		second portion, without again plotting the first portion of the network
33		topology.
1	10.	(original) The method of claim 9 wherein the network node information further
2		includes one or more of the following:
3		tool tip information for specifying information to display on the display device upon a
4		first interaction with the graphical image,

5		click action information for specifying an action to perform upon a second interaction
6		with the graphical image,
7		menu information for specifying a menu to display on the display device upon a third
8		interaction with the graphical image; and
9		the method further comprises the step of:
10		enabling functions initiated by each of the first interaction, the second interaction, and
11		the third interaction.
1	11.	(original) The method of claim 10 wherein the function initiated by the third
2		interaction includes retrieving a file for displaying information about one or more
3		network links between the first node and one or more nodes connected to the first
4		node.
1	12.	(original) The method of claim 10 wherein the function initiated by the third
2		interaction includes retrieving a file for displaying information about one or more
3		routers associated with the first node.
1	13.	(original) The method of claim 10 wherein the function initiated by the third
2		interaction includes retrieving a file for displaying information about one or more
3		subnetworks associated with the first node.
1	14.	(original) The method of claim 9 wherein the steps of displaying the graphical image
2		and the node label and displaying the connection are performed according to one
3		specified display arrangement from a plurality of available display arrangements.
1	15.	(original) The method of claim 9 wherein the steps of displaying the graphical image
2		and the node label and displaying the connection are performed such that the
3		graphical image is substantially centered on the display element of the display device.

1	16.	(original) The method of claim 9 wherein the step of displaying the graphical image
2		and the node label is performed such that graphical image size is related to the
3		number of connections to the graphical image.
1	17.	(original) The method of claim 9 wherein the network node connection information
2		includes connection label information for specifying a label associated with the
3		connection and wherein the step of displaying the connection includes displaying the
4		connection label.
1	18.	(original) The method of claim 17 wherein the connection label information includes
2		a cost parameter label that reflects the bandwidth capacity of the network link
3		represented by the connection.
1	19.	(original) The method of claim 9 wherein the connection information includes
2		menu information for specifying a menu to display on the display device upon an
3		interaction with the connection; and
4		the method further comprises the step of:
5		enabling a function initiated by the interaction.
- 1	20.	(currently amended) A computer-readable medium carrying one or more sequences of
2		instructions for plotting a network topology using a markup language, wherein
3		execution of the one or more sequences of instructions by one or more processors
4		causes the one or more processors to perform steps of:
5		retrieving first topology information from a data source in response to a request for a
6		first graphic display, wherein the first topology information represents a first
7		portion of a network topology that comprises graphical images that represent
8		nodes and connections between nodes;
9		converting the first topology information into a markup language document, wherein
10		the markup language document is associated with a document type definition

11		that defines how to process information in the markup language document to
12		plot a graph based on the information;
13		plotting a graph of the first portion of the topology, based on the first topology
14		information in the markup language document;
15		causing display of the graph of the first portion of the topology on a display device;
16		after causing display of the graph of the first portion of the topology, and in response
17		to an interaction with a graphical image from the graph of the first portion of
18		the topology, automatically retrieving second topology information from the
19		data source, wherein the second topology information represents a second
20		portion of the network topology;
21		converting the second topology information into a markup language document
22		associated with the document type definition and plotting a graph of the
23		second portion of the topology based on the second topology information in
24		the markup language document; and
25		causing display of a graph of (a) at least a portion of the first portion based on the first
26		topology information and (b) the second portion of the topology based on the
27		second topology information, without retrieving again the first topology
28	_	information from the data source and plotting again the graph of the first
29		portion of the topology.
1	21.	(previously presented) The computer-readable medium of claim 20 wherein the first
2		topology information as the markup language document includes
3		image information for specifying a graphical image representing a focus entity for
4		plotting in the graph of the first portion of the topology,
5		label information for specifying a label associated with the graphical image for
6		plotting in the graph of the first portion of the topology,

7	co	nnection information for specifying one or more connections between the graphical
8		image and one or more secondary graphical images; and
9	\mathbf{w}	herein execution of the one or more sequences of instructions by one or more
10		processors causes the one or more processors to perform the step of plotting
11		the graph of the first portion of the topology based on the image information,
12		the label information, and the connection information.
1	22. (p	reviously presented) A computer-readable medium carrying one or more sequences
2	of	instructions for displaying portions of a network topology, wherein execution of
3	th	e one or more sequences of instructions by one or more processors causes the one or
4	m	ore processors to perform steps of:
5	co	nverting network topology information into a first markup language document,
6		wherein the markup language document is associated with a document type
7		definition that defines how to process information in the markup language
8		document to plot a graph, wherein the markup language document includes
9		graph information specifying display attributes for plotting a first portion of
10		the network topology;
11		network node information, the node information including
12		image information for specifying a graphical image representing a first
13		node for display on a display device,
14		node label information for specifying a node label associated with the
15		graphical image for display on the display device,
16	•	network node connection information specifying a connection between
17		graphical images and representing a network link between the first
18		node and a second node;
19	ple	otting the first portion of the network topology based on the first markup language
20		document and associated document type definition;

21		displaying on the display device, as part of the first portion of the network topology,
22		the graphical image and the node label for the first node, according to the
23		node information and the graph information;
24		displaying on the display device, as part of the first portion of the network topology,
25		the connection between the graphical image representing the first node and at
26		least a second graphical image representing the second node, according to the
27		node connection information and the graph information;
28		after displaying the graphical image, the node label and the connection, and in
29		response to an interaction with a graph of the first portion of the network
30		topology, retrieving a second markup language document associated with the
31		document type definition, wherein the second markup language document
32		corresponds to a second portion of the network topology; and
33		causing display of a graph of (a) at least a portion of the first portion and (b) the
34		second portion, without again plotting the first portion of the network
35		topology.
1	23.	(original) The computer-readable medium of claim 22 wherein the network node
2		connection information includes connection label information for specifying a label
3		associated with the connection and wherein execution of the one or more sequences
4		of instructions by one or more processors causes the one or more processors to
5		perform the step of displaying the connection including displaying a label
6		representing a cost parameter that reflects the bandwidth capacity of the network link
7		associated with the connection.
1	24.	(currently amended) A computer system comprising:
2		a network interface;
3		a memory; and

4	one or more processors connected to the network interface, the one or more
5	processors configured for
6	retrieving first topology information from a data source in response to a
7	request for a first graphic display, wherein the first topology
8	information represents a first portion of a network topology that
9	comprises graphical images that represent nodes and connections
10	between nodes;
11	converting the first topology information into a markup language document,
12	wherein the markup language document is associated with a document
13	type definition that defines how to process information in the markup
14	language document to plot a graph based on the information;
15	plotting a graph of the first portion of the topology, based on the first topology
16	information in the markup language document;
17	causing display of the graph of the first portion of the topology on a display
18	device;
19	after causing display of the graph of the first portion of the topology, and in
20	response to an interaction with a graphical image from the graph of the
21	first portion of the topology, automatically retrieving second topology
22	information from the data source, wherein the second topology
23	information represents a second portion of the network topology;
24	converting the second topology information into a markup language document
25	associated with the document type definition and plotting a graph of
26	the second portion of the topology based on the second topology
27	information in the markup language document; and
28	causing display of a graph of (a) at least a portion of the first portion based on
29	the first topology information and (b) the second portion of the

30		topology based on the second topology information, without retrieving
31		again the first topology information from the data source and plotting
32	•	again the graph of the first portion of the topology.
1	25.	(previously presented) An apparatus for displaying a network topology, the apparatus
2		comprising:
3		means for converting network topology information into a first markup language
4		document, wherein the markup language document is associated with a
5		document type definition that defines how to process information in the
6		markup language document to plot a graph, wherein the markup language
7		document includes
8.		graph information specifying display attributes for plotting a first portion of
9		the network topology;
10		network node information, the node information including
11		image information for specifying a graphical image representing a first
12		node for display on a display device,
13		node label information for specifying a node label associated with the
14		graphical image for display on the display device,
15		network node connection information specifying a connection between
16		graphical images and representing a network link between the first
17		node and a second node;
18		means for plotting the first portion of the network topology based on the first markup
19		language document and associated document type definition;
20		means for displaying on the display device, as part of the first portion of the network
21		topology, the graphical image and the node label for the first node, according
22		to the node information and the graph information;

means for displaying on the display device, as part of the first portion of the network topology, the connection between the graphical image representing the first node and at least a second graphical image representing the second node, according to the node connection information and the graph information; means for retrieving a second markup language document associated with the document type definition after displaying the graphical image, the node label and the connection, and in response to an interaction with the graphical image representing the first node, wherein the second markup language document corresponds to a second portion of the network topology; and means for causing display of a graph of (a) at least a portion of the first portion and (b) the second portion, without again plotting the first portion of the network topology.

1 26-34. (canceled)

35. (currently amended) An apparatus for displaying a network topology, the apparatus comprising: means for retrieving first topology information from a data source in response to a request for a first graphic display, wherein the first topology information represents a first portion of a network topology that comprises graphical images that represent nodes and connections between nodes; means for converting the first topology information into a markup language document, wherein the markup language document is associated with a document type definition that defines how to process information in the markup language document to plot a graph based on the information; means for plotting a graph of the first portion of the topology, based on the first topology information in the markup language document;

means for causing display of the graph of the first portion of the topology on a display
device;
means for automatically retrieving second topology information from the data source
after causing display of the graph of the first portion of the topology and in
response to an interaction with a graphical image from the graph of the first
portion of the topology, wherein the second topology information represents a
second portion of the network topology;
means for converting the second topology information into a markup language
document associated with the document type definition and plotting a graph of
the second portion of the topology based on the second topology information in
the markup language document; and
means for causing display of a graph of (a) at least a portion of the first portion based on
the first topology information and (b) the second portion of the topology based
on the second topology information, without retrieving again the first topology
information from the data source and plotting again the graph of the first portion
of the topology.

17.